

Controlled Vocabularies Used by International Soil Carbon Network Templates

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[This is a beta release of the ISCN Database products. Several features of the database, data submissions guidelines and quality checks are still under development. Please send any feedback to nscn-support@george.lbl.gov.](#)

Vocabulary	Parsing Token	Description
2D_POSITION used by : 2d_position		
	SU	summit
	SH	shoulder
	BS	backslope
	FS	footslope
	TS	toeslope
	IF	interfluve IF
	CT	crest CT
	HS	head slope HS
	NS	nose slope NS
	SS	side slope SS
	FF	free face
	BS	base slope
	MT	mountaintop
	MF	mountainflank
	UT	upper third - mountainflank
	CT	center third - mountainflank
	LT	lower third - mountainflank
	FF	free face
	MB	mountainbase
	MIA code : riser	riser
	MIA code : tread	tread
	MIA code : dip	dip
	MIA code : rise	rise
	MIA code : talf	talf
	other	other
	none	none
BURN used by : burn_ev		
		none
	ash	ash
	burned organic matter	burned organic matter

Vocabulary	Parsing Token	Description
	charcoal	charcoal
CCON_TYPE used by : ccon_site_type, ccon_prof_type, ccon_samp_type, ccon_fract_type		
	org	organic
	min	mineral
	whole	whole soil
CORE_PIT used by : collection_method		
	core	sample collection from core
	pit	sample collection from pit
DATE_QUAL used by : all disturbance and observation dates		
		exact date assumed
	approx	approximate date of unknown precision
	exact	exact date
	greater than ten years	greater than ten years
	month	within one month
	one year	within one year
	ten years	within a decade
	three months	within three months
	three years	within three years
	week	within one week
DATUM used by : datum		
	WGS84	WGS84
	NAD27	NAD27
DIRECTION used by : aspect_cl		
	E	east
	N	north
	NE	north east
	NW	north west
	S	south
	SE	south east
	SW	south west
	W	west
DIST_FERTA used by :		
	broadcast	Fertilizer application method is broadcast
	coulter injection knife	Fertilizer application method is coulter injection knife
	sprayer	Fertilizer application method is sprayer
	other	Fertilizer application method is other
DIST_FIRE used by : all fire disturbances		
	high	Fire severity is high
	medium	Fire severity is medium
	low	Fire severity is low

Vocabulary	Parsing Token	Description
DIST_M_FERT_APP used by : dist_m_fertilization_method		
	broadcast	Application method for mineral fertilizer is broadcast
	coulter injection knife	Application method for mineral fertilizer is coulter injection knife
	other	Application method for mineral fertilizer is other
	sprayer	Application method for mineral fertilizer is sprayer
DIST_M_FERT_FORM used by : dist_m_fertilization_form		
	calcium ammonium nitrate	Chemical form of mineral fertilizer is calcium ammonium nitrate
	other	Chemical form of mineral fertilizer is other
	potassium phosphate	Chemical form of mineral fertilizer is potassium phosphate
	straight ammonium nitrate	Chemical form of mineral fertilizer is straight ammonium nitrate
	urea	Chemical form of mineral fertilizer is urea
DIST_M_FERT_TYPE used by : dist_m_fertilization_type		
	K	Mineral fertilizer is K
	N	Mineral fertilizer is N
	P	Mineral fertilizer is P
DIST_REGEN used by : dist_natural_regeneration_type		
	filled	Site regeneration was filled by planted trees or other vegetation
	not filled	Site regeneration was not filled by planted trees or other vegetation
DIST_RESIDUE used by : all harvest, clearcut, and thinning disturbances		
	residue left on field	Residue was left on site and not removed
	residue removed	Residue was removed
DIST_TILLAGE used by : dist_tillage_type		
	strip-till	Tillage type is strip-till
	ridge-till	Tillage type is ridge-till
	other	Tillage type is other
	scarification	Tillage type is scarification
	conventional	Tillage type is conventional
DISTFERT used by :		
	other	Fertilizer types include N, P, K, or other.
	N	Mineral fertilizer is N
	P	Mineral fertilizer is P
	K	Mineral fertilizer is K
DRAINAGE used by : drainagecl		
	excessively	excessively
	moderately well	moderately well
	poorly	poorly
	somewhat excessively	somewhat excessively

Vocabulary	Parsing Token	Description
	somewhat poorly	somewhat poorly
	very poorly	very poorly
	well	well
FLOOD_FREQ used by : flood_freq		
	none	
	very rare	
	rare	
	occasional	
	common	
	frequent	
	very frequent	
HOMOGENEITY used by :		
	compositional trend	compositional trend across plot
	conspicuous inclusions	conspicuous inclusions
	homogeneous	homogeneousn
	mosaic	irregular or pattern mosaic
HORIZON_DEPTH used by : layer_method		
	depth	from specified depths
	horizon	from specified horizon
	other	other
HZN_TYPE used by :		
	min	mineral
	mix	mixed
	org	organic
	orgburied	organic buried
INC_EXC used by :		
	include	Included
	exclude	Excluded
LANDFORM used by : landform		
	MIA code : a'a lava flow	a'a lava flow
	AA	alas
	MIA code : alluvial cone	alluvial cone
	AF	alluvial fan
	AP	alluvial flat
	MIA code : alpine glacier	alpine glacier
	AN	anticline
	AR	arete
	AY	arroyo
	AS	ash flow
	AT	atoll
	AL	avalanche chute

Vocabulary	Parsing Token	Description
	MIA code : axial stream	axial stream
	AZ	backshore
	BS	backswamp
	BJ	bajada (also LS)
	BL	ballena
	BV	ballon
	BR	bar
	BQ	barchan dune
	BB	barrier beach
	BP	barrier flat
	BI	barrier island (also LS)
	BC	basin floor
	BD	basin-floor remnant
	WB	bay [coast] (w)
	MIA code : bay [geom.]	bay [geom.]
	WC	bayou (w)
	BE	beach
	BP	beach plain
	BG	beach ridge
	BT	beach terrace
	BM	berm
	MIA code : beveled base	beveled base
	VB	blind valley
	BW	block field
	MIA code : block glide	block glide
	MIA code : block lava flow	block lava flow
	BX	block stream
	BY	blowout
	BN	bluff
	BO	bog
	MIA code : box canyon	box canyon
	BZ	braided stream
	MIA code : broad interstream divide	broad interstream divide
	BU	butte
	CD	caldera
	CA	canyon
	MIA code : canyon bench	canyon bench
	CB	Carolina Bay
	CC	channel (also Micro)
	CG	chenier
	CH	chenier plain

Vocabulary	Parsing Token	Description
	CI	cinder cone
	CQ	cirque
	MIA code : cirque floor	cirque floor
	MIA code : cirque headwall	cirque headwall
	MIA code : cirque platform	cirque platform
	CJ	cliff
	MIA code : climbing dune	climbing dune
	MIA code : closed depression	closed depression
	MIA code : (also Micro)	(also Micro)
	CP	coastal plain (also LS)
	MIA code : cockpit	cockpit
	CL	col
	CK	collapsed ice-floored
	MIA code : lakebed	lakebed
	CN	collapsed ice-walled
	MIA code : lakebed	lakebed
	CS	collapsed lake plain
	CT	collapsed outwash plain
	MIA code : collapsed sinkhole	collapsed sinkhole
	MIA code : complex landslide	complex landslide
	CE	coulee
	MIA code : cove [coast] (w)	cove [coast] (w)
	CO	cove [geom.]
	MIA code : craig and tail	craig and tail
	CR	crater (volcanic)
	CF	crevasse filling
	CU	cuesta
	MIA code : cuesta valley	cuesta valley
	CV	cutoff
	DA	debris avalanche
	MIA code : debris fall	debris fall
	DF	debris flow
	MIA code : debris slide	debris slide
	MIA code : debris spread	debris spread
	MIA code : debris topple	debris topple
	DB	deflation basin
	DE	delta
	DC	delta plain (also LS)
	DP	depression
	DD	diapir
	DK	dike

Vocabulary	Parsing Token	Description
	DL	dipslope
	DM	disintegration moraine
	DN	divide
	DO	dome
	DQ	drainageway
	DW	draw
	DR	drumlin
	MIA code : drumlinoid ridge	drumlinoid ridge
	DU	dune
	MIA code : dune lake (w)	dune lake (w)
	MIA code : dune slack (also Micro)	dune slack (also Micro)
	EF	earth flow
	MIA code : earth spread	earth spread
	MIA code : earth topple	earth topple
	EM	end moraine
	MIA code : ephemeral stream	ephemeral stream
	MIA code : (also Micro)	(also Micro)
	MIA code : eroded fan remnant	eroded fan remnant
	MIA code : eroded fan-remnant	eroded fan-remnant
	MIA code : side slope	side slope
	ER	erosion remnant
	ES	escarpment
	EK	esker
	WD	estuary (w)
	FS	faceted spur
	FB	fall
	MIA code : falling dune	falling dune
	FC	fan
	FA	fan apron
	MIA code : fan collar	fan collar
	FF	fanhead trench
	FG	fan piedmont (also LS)
	FH	fan remnant
	FI	fan skirt
	FK	fault-line scarp
	MIA code : fault zone	fault zone
	FN	fen
	MIA code : fissure vent	fissure vent
	FJ	fjord (w)
	FL	flat
	FP	flood plain

Vocabulary	Parsing Token	Description
	FY	flood-plain playa
	FM	flood-plain splay
	FO	flood-plain step
	MIA code : flow	flow
	FU	flute (also Micro)
	MIA code : fluviomarine terrace (also LS)	fluviomarine terrace (also LS)
	FQ	fold
	FD	foredune
	FV	fosse
	FW	free face
	GA	gap
	MIA code : geyser	geyser
	MIA code : geyser basin	geyser basin
	MIA code : geyser cone	geyser cone
	GC	giant ripple
	GD	glacial drainage channel
	WE	glacial lake (w)
	GL	glacial lake (relict)
	MIA code : glacial-valley floor	glacial-valley floor
	MIA code : glacial-valley wall	glacial-valley wall
	MIA code : glacier	glacier
	GO	gorge
	GR	graben
	GM	ground moraine
	GT	gulch
	MIA code : gulf [coast]; (w)	gulf [coast]; (w)
	WH	gut (stream); (w)
	GV	gut (valley)
	HV	hanging valley
	HE	headland
	MIA code : head-of-outwash	head-of-outwash
	HW	headwall
	MIA code : high hill	high hill
	HB	highmoor bog
	HI	hill
	MIA code : hillslope	hillslope
	HO	hogback
	HR	horn
	HT	horst
	MIA code : hot spring	hot spring
	MIA code : ice-contact slope	ice-contact slope

Vocabulary	Parsing Token	Description
	MIA code : ice-marginal stream	ice-marginal stream
	MIA code : ice-pushed ridge	ice-pushed ridge
	IN	inselberg
	IF	inset fan
	MIA code : interdrumlin	interdrumlin
	ID	interdune (also Micro)
	MIA code : interfluve (also Geom. Geom.	interfluve (also Geom.
	IV	Component - Hills)
	MIA code : interior valley	interior valley
	MIA code : intermittent stream	intermittent stream
	MIA code : (also Micro)	(also Micro)
	IB	intermontane basin
	MIA code : (also LS)	(also LS)
	MIA code : island (also LS)	island (also LS)
	KA	kame
	KM	kame moraine
	KT	kame terrace
	MIA code : karst cone	karst cone
	MIA code : karst tower	karst tower
	MIA code : karst valley	karst valley
	KE	kettle
	MIA code : kipuka	kipuka
	KN	knob
	KL	knoll
	WI	lagoon (w)
	LA	lahar
	WJ	lake (w)
	LB	lakebed (relict)
	LP	lake plain (also LS)
	LF	lakeshore
	LT	lake terrace
	LK	landslide
	LM	lateral moraine
	MIA code : lateral spread	lateral spread
	MIA code : lava field (also LS)	lava field (also LS)
	LC	lava flow
	MIA code : lava flow unit (also Micro)	lava flow unit (also Micro)
	LN	lava plain (also LS)
	LL	lava plateau (also LS)

Vocabulary	Parsing Token	Description
	MIA code : lava trench (also Micro)	lava trench (also Micro)
	MIA code : lava tube	lava tube
	LE	ledge
	LV	levee [stream]
	LO	loess bluff
	LQ	loess hill
	MIA code : longitudnal dune	longitudnal dune
	LR	longshore bar [relict]
	LU	louderback
	MIA code : low hill	low hill
	LX	lowmoor bog
	MIA code : maar	maar
	MIA code : main scarp (also Micro)	main scarp (also Micro)
	MT	marine terrace (also LS)
	MA	marsh
	MIA code : mawae	mawae
	MB	meander
	MC	meandering channel
	MS	meander scar
	MG	meander scroll
	MH	medial moraine
	ME	mesa
	MIA code : meteorite crater	meteorite crater
	MIA code : mogote	mogote
	MD	monadnock
	MJ	monocline
	MU	moraine
	MM	mountain (plural = LS)
	MN	mountain slope
	MV	mountain valley
	MF	mud flat
	MW	mudflow
	MIA code : mud pot	mud pot
	MX	muskeg
	NL	natural levee
	MIA code : neck [volcanic]	neck [volcanic]
	NO	notch
	NU	nunatak
	MIA code : ocean	ocean

Vocabulary	Parsing Token	Description
	MIA code : open depression (also Micro)	open depression (also Micro)
	MIA code : outwash delta	outwash delta
	OF	outwash fan
	OP	outwash plain (also LS)
	OT	outwash terrace
	MIA code : overflow stream (channel)	overflow stream (channel)
	OX	oxbow
	WK	oxbow lake (w)
	OL	oxbow lake (ephemeral)
	PA	paha
	MIA code : pahoehoe lava flow	pahoehoe lava flow
	MIA code : paleoterrace	paleoterrace
	PB	parabolic dune
	PD	parna dune
	PF	partial ballena
	PG	patterned ground
	MIA code : pavement karst	pavement karst
	PK	peak
	PJ	peat plateau
	PE	pediment
	MIA code : perennial stream (w)	perennial stream (w)
	MIA code : pillow lava flow	pillow lava flow
	MIA code : pinnacle	pinnacle
	PI	pingo
	PM	pitted outwash plain
	MIA code : pitted outwash terrace	pitted outwash terrace
	PN	plain (also LS)
	PT	plateau (also LS)
	PL	playa
	MIA code : playa dune (also Micro)	playa dune (also Micro)
	MIA code : playa floor (also Micro)	playa floor (also Micro)
	WL	playa lake (w)
	MIA code : playa rim (also Micro)	playa rim (also Micro)
	MIA code : playa slope (also Micro)	playa slope (also Micro)
	MIA code : playa step (also Micro)	playa step (also Micro)

Vocabulary	Parsing Token	Description
	MIA code : plug [volcanic]	plug [volcanic]
	PP	plug dome
	WM	pluvial lake (w)
	PQ	pluvial lake (relict)
	PO	pocosin
	PR	point bar
	PH	pothole (also Micro)
	WN	pothole lake (w)
	MIA code : pressure ridge [ice]	pressure ridge [ice]
	PU	pressure ridge [volc]
	WO	proglacial lake (w)
	MIA code : proglacial lake (relict)	proglacial lake (relict)
	MIA code : pyroclastic flow	pyroclastic flow
	MIA code : pyroclastic surge	pyroclastic surge
	RA	raised beach
	RB	raised bog
	RV	ravine
	RM	recessional moraine
	RF	reef
	MIA code : reworked lake plain	reworked lake plain
	RG	ribbed fen
	RI	ridge
	RJ	rim
	MIA code : rise	rise
	MIA code : river (w)	river (w)
	MIA code : river valley (also LS)	river valley (also LS)
	MIA code : roche moutonnee (also Micro)RN	roche moutonnee (also Micro)RN
	MIA code : rock fall (also Micro)	rock fall (also Micro)
	MIA code : rock fall avalanche	rock fall avalanche
	RO	rock glacier
	MIA code : rock pediment	rock pediment
	MIA code : rock spread	rock spread
	MIA code : rock topple	rock topple
	MIA code : rotational debris slide	rotational debris slide
	MIA code : rotational earth slide	rotational earth slide
	MIA code : rotational rock slide	rotational rock slide
	RP	rotational slide
	SA	saddle

Vocabulary	Parsing Token	Description
	MIA code : sag (also Micro)	sag (also Micro)
	MIA code : sag pond (w; also Micro)	sag pond (w; also Micro)
	SM	salt marsh
	WQ	salt pond (w; also Micro)
	RW	sand flow
	MIA code : sand ramp	sand ramp
	RX	sand sheet
	RY	scarp
	RS	scarp slope
	MIA code : scree slope	scree slope
	MIA code : sea (w)	sea (w)
	RZ	sea cliff
	SD	seif dune
	MIA code : shield volcano	shield volcano
	WR	shoal (w)
	SE	shoal (relict)
	MIA code : shore	shore
	RT	sill
	SH	sinkhole
	WS	slackwater (w)
	SJ	slide
	MIA code : slot canyon	slot canyon
	SL	slough (ephemeral water)
	WU	slough (permanent water)
	SK	slump
	SN	slump block
	MIA code : snowfield	snowfield
	MIA code : soil fall	soil fall
	MIA code : solution sinkhole	solution sinkhole
	MIA code : sound (w)	sound (w)
	SP	spit
	SQ	spur
	MIA code : stack [coast]	stack [coast]
	SR	stack [geom.]
	MIA code : star dune	star dune
	ST	steptoe
	MIA code : stock	stock
	MIA code : stoss and lee	stoss and lee
	MIA code : strait (w)	strait (w)
	SS	strand plain
	SU	strath terrace

Vocabulary	Parsing Token	Description
	SV	stratovolcano
	MIA code : stream (w)	stream (w)
	SX	stream terrace
	MIA code : strike valley	strike valley
	SY	string bog
	SB	structural bench
	MIA code : submerged–upland tidal	submerged–upland tidal
	MIA code : marsh	marsh
	SC	swale (also Micro)
	TB	swallow hole
	SW	swamp
	SZ	syncline
	MIA code : talus cone	talus cone
	MIA code : talus slope	talus slope
	MIA code : tarn (w; also Micro)	tarn (w; also Micro)
	TA	terminal moraine
	TE	terrace
	TK	thermokarst depression
	WV	thermokarst lake (w)
	TF	tidal flat
	MIA code : tidal marsh	tidal marsh
	MIA code : till-floored lake plain	till-floored lake plain
	TP	till plain (also LS)
	MIA code : toe [mass move.];	toe [mass move.];
	MIA code : (also Micro)	(also Micro)
	TO	tombolo
	MIA code : topple	topple
	TQ	tor
	MIA code : translational debris slide	translational debris slide
	MIA code : translational earth slide	translational earth slide
	MIA code : translational rock slide	translational rock slide
	TS	translational slide
	TD	transverse dune
	TR	trough
	TV	tunnel valley
	MIA code : tunnel-valley lake (w)	tunnel-valley lake (w)
	MIA code : underfit stream	underfit stream
	UV	U-shaped valley

Vocabulary	Parsing Token	Description
	VA	valley
	MIA code : valley border surfaces	valley border surfaces
	VF	valley flat
	VL	valley floor
	VS	valley side
	VT	valley train
	VC	volcanic cone
	VD	volcanic dome
	MIA code : volcanic field (also LS)	volcanic field (also LS)
	VO	volcano
	VV	V-shaped valley
	WA	wash
	WF	washover fan
	WT	wave-built terrace
	WP	wave-cut platform
	WG	wind gap
	MIA code : yardang (also Micro)	yardang (also Micro)
	MIA code : yardang trough (also Micro)	yardang trough (also Micro)
LANDFORM_MOD used by :		
	bedrock	bedrock
	coastal	coastal
	glaciated	glaciated
	gravelly	gravelly
	high	high
	kame	kame
	lacustrine	lacustrine
	lake	lake
	loess	loess
	low	low
	lower	lower
	mid	mid
	none	none
	rocky	rocky
	sand	sand
	sandy	sandy
	stream	stream
	unconsolidated	unconsolidated
	upper	upper

Vocabulary	Parsing Token	Description
LANDSAT used by :		
	Barren Land (Rock/Sand/Clay)	areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.
	Cultivated Crops	areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.
	Deciduous Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.
	Developed High Intensity	highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.
	Developed, Low Intensity	areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20% to 49% percent of total cover. These areas most commonly include single-family housing units.
	Developed, Medium Intensity	areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.
	Developed, Open Space	areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.
	Dwarf Scrub	Alaska only areas dominated by shrubs less than 20 centimeters tall with shrub canopy typically greater than 20% of total vegetation. This type is often co-associated with grasses, sedges, herbs, and non-vascular vegetation.
	Emergent Herbaceous Wetlands	areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
	Evergreen Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.
	Grassland/Herbaceous	areas dominated by graminoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.

Vocabulary	Parsing Token	Description
	Lichens	Alaska only areas dominated by fruticose or foliose lichens generally greater than 80% of total vegetation.
	Mixed Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.
	Moss	Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.
	Open Water	areas of open water, generally with less than 25% cover of vegetation or soil.
	Pasture/Hay	areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.
	Perennial Ice/Snow	areas characterized by a perennial cover of ice and/or snow, generally greater than 25% of total cover.
	Sedge/Herbaceous	Alaska only areas dominated by sedges and forbs, generally greater than 80% of total vegetation. This type can occur with significant other grasses or other grass like plants, and includes sedge tundra, and sedge tussock tundra.
	Shrub/Scrub	areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.
	Woody Wetlands	areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.

LANDSCAPE used by : landscape

	MIA code : icemargin complex	icemargin complex
	IB	intermontane basin (also LF)
	MIA code : island (also LF)	island (also LF)
	KP	karst
	MIA code : kegel karst	kegel karst
	MIA code : lake plain (also LF)	lake plain (also LF)
	MIA code : alluvial plain	alluvial plain
	MIA code : alluvial plain remnant	alluvial plain remnant
	BA	badlands
	BJ	bajada (also LF)
	MIA code : barrier island (also LF)	barrier island (also LF)
	BS	basin
	MIA code : batholith	batholith
	BO	bolson

Vocabulary	Parsing Token	Description
	BK	breaks
	MIA code : canyonlands	canyonlands
	CP	coastal plain (also LF)
	MIA code : cockpit karst	cockpit karst
	MIA code : continental glacier	continental glacier
	MIA code : delta plain (also LF)	delta plain (also LF)
	MIA code : drumlin field	drumlin field
	MIA code : dune field	dune field
	FP	fan piedmont (also LF)
	MIA code : fluviokarst	fluviokarst
	MIA code : fluviomarine terrace (also LF)	fluviomarine terrace (also LF)
	FH	foothills
	HI	hills (singular = LF)
	MIA code : lava field (also LF)	lava field (also LF)
	MIA code : lava plain (also LF)	lava plain (also LF)
	LL	lava plateau (also LF)
	MIA code : lowland	lowland
	MIA code : marine terrace (also LF)	marine terrace (also LF)
	MB	meander belt
	MIA code : mountain range	mountain range
	MO	mountains (singular = LF)
	MIA code : mountain system	mountain system
	MIA code : outwash plain (also LF)	outwash plain (also LF)
	MIA code : peninsula	peninsula
	PI	piedmont
	MIA code : piedmont slope	piedmont slope
	PL	plains (also LF)
	PT	plateau (also LF)
	MIA code : rift valley	rift valley
	RV	river valley (also LF)
	SH	sandhills
	MIA code : sand plain	sand plain
	SC	scabland
	SB	semibolson
	MIA code : shore complex	shore complex
	MIA code : sinkhole karst	sinkhole karst
	TB	tableland
	TK	thermokarst
	TP	till plain (also LF)

Vocabulary	Parsing Token	Description
	UP	upland
	VA	valley (also LF)
	MIA code : volcanic field (also LF)	volcanic field (also LF)
PARENT_SOIL used by :		
	loess	loess
	glacial till	glacial till
POND_FREQ used by : pond_freq		
	common	
	rare	
	occasional	
	frequent	
PRIMARY_FEATURE used by :		
	bar	bar
	bench	bench
	channel	channel
	cirque	cirque
	depression	depression
	drainageway	drainageway
	fan terrace	fan terrace
	flood plain	flood plain
	kame terrace	kame terrace
	kettle	kettle
	levee	levee
	nivation hollow	nivation hollow
	peat plateau	peat plateau
	point bar	point bar
	solifluction lobe	solifluction lobe
	stripe	stripe
	swale	swale
	thermokarst depression	thermokarst depression
RUNOFF used by : runoff		
	ponded	
	negligible	
	very low	
	low	
	medium	
	high	
	very high	
SAMPLE_METHOD used by :		
	unknown	unknown

Vocabulary	Parsing Token	Description
	core-hzn-first	sample taken from a designated horizon and from a soil core
	face-hzn-first	sample taken from a designated horizon and from a face pit
	core-depth-first	sample taken from a designated depth and from a soil core
	face-depth-first	sample taken from a designated depth and from a face pit
	core-hzn-second	second sample taken from the same profile but for an alternative designated horizon and from a soil core
	face-hzn-second	second sample taken from the same profile but at an alternative designated horizon and from a face pit
	core-depth-second	second sample taken from the same profile but for an alternative designated depth and from a soil core
	face-depth-second	second sample taken from the same profile but at an alternative designated depth and from a face pit
	other-hzn	sampled at designated horizons and by the quantitative pit method
	other-depth	sampled at designated depths and by the quantitative pit method
	other	other sampling
SECONDARY_FEATURE used by :		
	circles	circles
	earth hummocks	earth hummocks
	frost boils	frost boils
	high-center polygons	high-center polygons
	ice-wedge polygons	ice-wedge polygons
	low-center polygons	low-center polygons
	mounts	mounts
	non-sorted circles	non-sorted circles
	palsa	palsa
	polygons	polygons
	shrub-coppice dunes	shrub-coppice dunes
	solifluction lobe	solifluction lobe
	sorted circles	sorted circles
	stripe	stripe
	stripes	stripes
	turf hummocks	turf hummocks
SITE_PERM used by : site_perm		
	very slow	
	slow	
	moderate	
	moderately slow	
	impermeable	

Vocabulary	Parsing Token	Description
	moderately rapid	
	rapid	
	very rapid	
SLOPE used by :		
	backslope	backslope
	footslope	footslope
	none	none
	other	other
	shoulder	shoulder
	summit	summit
	toeslope	toeslope
SOIL_TAXON used by :		
	el	Gelisol
	id	Aridisol
	lf	Alfisol
	ll	Mollisol
	lt	Ultisol
	nd	Andisol
	nt	Entisol
	od	Spodosol
	ox	Oxisol
	pt	Inceptisol
	rt	Vertisol
	st	Histosol
STAND_AGE used by :		
	even-aged, aggrading	even-aged, aggrading
	mature, even-age	mature, even-age
	not applicable	not applicable
	oldgrowth, all-age	oldgrowth, all-age
	transition, breakup	transition, breakup
	uneven-age	uneven-age
	young, regenerative	young, regenerative
US_STATES used by : state		
	NJ	New Jersey
	PR	Puerto Rico
	MS	Mississippi
	MP	Northern Mariana Islands (included with Pacific Basin)
	VA	Virginia
	MA	Massachusetts
	SD	South Dakota
	UT	Utah

Vocabulary	Parsing Token	Description
	WY	Wyoming
	WI	Wisconsin
	NH	New Hampshire
	WV	West Virginia
	MT	Montana
	CA	California
	CT	Connecticut
	OK	Oklahoma
	NM	New Mexico
	RI	Rhode Island
	AS	American Samoa (included with Pacific Basin)
	OR	Oregon
	NV	Nevada
	IN	Indiana
	ND	North Dakota
	AR	Arkansas
	MI	Michigan
	KY	Kentucky
	GU	Guam (included with Pacific Basin)
	GA	Georgia
	MD	Maryland
	VI	Virgin Islands
	DC	District of Columbia
	VT	Vermont
	IA	Iowa
	TN	Tennessee
	IL	Illinois
	PA	Pennsylvania
	NC	North Carolina
	OH	Ohio
	NE	Nebraska
	LA	Louisiana
	HI	Hawaii
	SC	South Carolina
	AZ	Arizona
	ME	Maine
	NY	New York
	AK	Alaska
	FL	Florida
	NL	National Lab
	CO	Colorado

Vocabulary	Parsing Token	Description
	MN	Minnesota
	DE	Delaware
	WA	Washington
	KS	Kansas
	AL	Alabama
	FN	Foreign (not used)
	TX	Texas
	ID	Idaho
	MO	Missouri
YES_BLANK used by : add_taxon_flag		
	yes	indicator present
		indicator not present